Construction Excellence Award

The Award

The BCA Construction Excellence Award was introduced in 1986 to promote and enhance construction excellence in the industry. It gives recognition to builders and other project parties for achieving excellence in areas of management, technology and construction quality.

Award Categories

a. Commercial/Mixed Development Buildings
b. Industrial Buildings
c. Institutional Buildings
d. Residential Buildings ($1,200/m² and Above)
e. Residential Buildings (Below $1,200/m²)
f. Small Buildings – $3 million to $10 million
g. Civil Engineering Projects
### Assessment Committee

<table>
<thead>
<tr>
<th>Chairman</th>
<th>Deputy Chairman</th>
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<tbody>
<tr>
<td>Mr Song Wee Ngee</td>
<td>Mr Richard Hassell</td>
</tr>
<tr>
<td>Managing Director</td>
<td>Founding Director</td>
</tr>
<tr>
<td>KTP Consultants Pte Ltd</td>
<td>WOHA Architects Pte Ltd</td>
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<th>Members</th>
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<tr>
<td>Mr Eddie Wong</td>
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<tr>
<td>City Developments Limited</td>
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<tr>
<td>Mr Ler Seng Ann</td>
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<tr>
<td>Urban Redevelopment Authority</td>
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<tr>
<td>Mr Louis Paul Fok Kow</td>
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<tr>
<td>Land Transport Authority</td>
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<tr>
<td>Mr Steven Low Kong Yen</td>
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<tr>
<td>Ong&amp;Ong Pte Ltd</td>
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<tr>
<td>Dr Ting Seng Kiong</td>
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<td>Singapore Institute of Technology</td>
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<tr>
<td>Mr Yutaka Gozu</td>
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<tr>
<td>Shimizu Corporation</td>
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<tr>
<td>Mr Tan Tian Chong</td>
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<td>Building and Construction Authority</td>
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<tr>
<td>Mr Khor Thong Meng</td>
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<td>Allgreen Properties Limited</td>
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<td>Er Ng Eng Kiong</td>
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<td>Squire Mech Pte Ltd</td>
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<td>Mr Pek Lian Guan</td>
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<td>Tiong Seng Contractors (Pte) Ltd</td>
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<td>Dr Tan Guan</td>
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<td>T.Y. Lin International Pte Ltd</td>
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<td>Er Yap Tiem Yew</td>
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<td>Housing &amp; Development Board</td>
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<td>Mr Lam Siew Wah</td>
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<td>Building and Construction Authority</td>
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## Construction Excellence Award

### The Central
(Commercial / Mixed Development Buildings)

<table>
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<tr>
<th>Builder</th>
<th>Quantity Surveyor</th>
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</thead>
<tbody>
<tr>
<td>Hexacon Construction Pte Ltd</td>
<td>KPK Quantity Surveyors (Singapore) Pte Ltd</td>
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<tr>
<td><strong>Client</strong></td>
<td><strong>Construction Cost</strong></td>
</tr>
<tr>
<td>Far East Organization</td>
<td>$204.0 million</td>
</tr>
<tr>
<td><strong>Architectural Consultant</strong></td>
<td><strong>Construction Period</strong></td>
</tr>
<tr>
<td>DP Architects Pte Ltd</td>
<td>46 months</td>
</tr>
<tr>
<td><strong>Structural Consultant</strong></td>
<td><strong>Gross Floor Area</strong></td>
</tr>
<tr>
<td>KTP Consultants Pte Ltd</td>
<td>79,170 m²</td>
</tr>
<tr>
<td><strong>M&amp;E Consultant</strong></td>
<td></td>
</tr>
<tr>
<td>Squire Mech Pte Ltd</td>
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### Key Features:
- Complex Design and Build mixed development built over and integrated with MRT Station.
- Excellent safety management and LTA’s Best Design Merit Award winner for Land Transport Integration in 2008.
- Excellent project management especially in handling of the critical changes from single phase hand-over to multiple-phases hand-over midway and yet able to deliver the shopping podium 6 months ahead of schedule.
- Achieved highest CONQUAS score of 87.6 for quality under Commercial Category in 2008 and also BCA’s Design and Engineering Safety Award 2008 Merit winner.
## Construction Excellence Award

### Pan Pacific Serviced Suites
(Commercial / Mixed Development Buildings)

- **Builder**: Kajima Overseas Asia Pte Ltd
- **Client**: UOL Group Ltd
- **Architectural / Structural Consultant**: CPG Consultants Pte Ltd
- **M&E Consultant**: Technocon Engineers (S) Pte Ltd
- **Quantity Surveyor**: Rider Levett Bucknall
- **Construction Cost**: $44.1 million
- **Construction Period**: 36 months
- **Gross Floor Area**: 11,795 m²

### Key Features:
- Excellent engineering works in the construction of aluminum panels for the unique U-shaped architectural form, especially on the underside of the 3rd storey, which required meticulous and precise scaffolding design.

- Demonstrated remarkable Design and Build strengths in the use of Continuous Bored Piling System at the perimeter wall to minimise settlement and vibration to surrounding buildings, especially the MRT tunnel. Precast components and dry walls were also used to achieve faster construction cycle.
Key Features:

- Demonstrated excellence in engineering in the construction of an ellipse cantilever structure and slanting façade on a 23m steep slope site with limited access and zero storage area.

- Commendable innovative feature in the form of a prefabricated steel link bridge with pre-installed M&E services and architectural finishes.

- Achieved a very good workmanship quality standard of 86.3 CONQUAS score.
Construction Excellence Award

Upgrading of Bukit Panjang Government High School at Choa Chu Kang Avenue 4, Singapore (Institutional Buildings)

Builder
Guan Ho Construction Co. Pte Ltd

Client
Ministry of Education

Architectural / Structural / M&E Consultant
CPG Consultants Pte Ltd

Quantity Surveyor
CPG Consultants Pte Ltd

Project Management
PM Link Pte Ltd

Construction Cost
$25.2 million

Construction Period
16 months

Gross Floor Area
25,137 m²

Key Features:

- Excellent planning and public relations with the affected neighbourhood particularly in noise, dust and working hours controls.

- Achieved a record of 88.6 CONQUAS score for excellence in workmanship quality.
The Sail @ Marina Bay
(Residential Buildings – $1200/m² & Above)

**Builder**
Dragages Singapore Pte Ltd

**Client**
Glengary Pte Ltd

**Architectural Consultant**
Team Design Architects Pte Ltd

**Structural / M&E Consultant**
Meinhardt (Singapore) Pte Ltd

**Quantity Surveyor**
Davis Langdon & Seah Singapore Pte Ltd

**Precast Design Consultant**
Precast Design Consultant Pte Ltd

**Façade Consultant**
Connell Wagner Pte Ltd

**Interior Design Consultant**
Axis Architects Planners Pte Ltd

**Landscape Consultant**
Belt Collins International (Singapore) Pte Ltd

**Lighting Consultant**
Lighting Planners Associates (Singapore) Pte Ltd

**Construction Cost**
$289.5 million

**Construction Period**
52 months

**Gross Floor Area**
118,182 m²

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**Key Features:**

- Demonstrated engineering excellence in design and construction with innovative ideas and features such as “The Peanut” circular diaphragm wall, 5-day cycle for superstructure with a combination of precast and in-situ concrete in modular metal form work system, precast concrete toilet units, adjustable column formwork for the curved structure and screedless flooring system.

- Winner of BCA’s Design and Engineering Safety Award.

- Achieved CONQUAS score of 94.8 in 2008 for excellence in workmanship quality.
Parc Emily Condominium
(Residential Buildings – $1200/m² & Above)

Builder
Tiong Seng Contractors (Pte) Ltd

Client
City Developments Limited / TID Pte Ltd

Architectural Consultant
ADDP Architects

Structural Consultant
LSW Consulting Engineers (Pte) Ltd

M&E Consultant
United Projects Consultants Pte Ltd

Quantity Surveyor
KPK Quantity Surveyors (Singapore) Pte Ltd

Construction Cost
$56.5 million

Construction Period
38.5 months

Gross Floor Area
25,153 m²

Key Features:

- Excellence in green, innovation, quality and buildability through the use of innovative systems like prefabricated unitised toilets, dry wall partitions, precast concrete components, rebated timber door, carcass-less wardrobes, advance modular formwork system and screedless floor.

- Winner of numerous awards for Safety, Innovation, Green, etc., from CDL, BCA, MOM, ROSPA, PUB.

- Achieved 94.1 CONQUAS points for excellent workmanship quality.
The Azure
(Residential Buildings – $1200/m² & Above)

Award Builder
China Construction (South Pacific) Development Co Pte Ltd

Client
Frasers Centrepoint Limited

Architectural Consultant
ADDP Architects

Structural Consultant
DE Consultants (S) Pte Ltd

M&E Consultant
Squire Mech Pte Ltd

Quantity Surveyor
Davis Langdon & Seah Singapore Pte Ltd

Landscape Architect
Site Concepts International Pte Ltd

Construction Cost
$52.0 million

Construction Period
36 months

Gross Floor Area
21,214 m²

Key Features:

• Demonstrated initiatives to improve quality and incorporated green features such as underwater glass panels at the e-deck and swimming pools to bring in more natural light to basement carparks. Replaced bored pile with precast spun pile to reduce noise and water pollutions and re-designed ejector pit to avoid deep excavation.

• Achieved 93.6 CONQUAS points for excellent workmanship quality and a 97.4% passing rate during the first Quality Mark assessment.
Key Features:

- An epic of excellence in luxury and construction with emphasis on green, safety and quality, e.g., the use of modern unitised low-E curtain wall system, “Magic Arm” lifting gear for safety, flat slab with core wall for speed, “Silent Chord” noise barrier to minimise noise, drywall and prefabricated unit-bath for buildability and the rearrangement of carparks lots to save one level of basement construction.

- Winner of several awards for Safety, Green, and achieved 89.4 CONQUAS points for workmanship quality.
RiverEdge
(Residential Buildings – $1200/m² & Above)

Award Builder
Tiong Seng Contractors (Pte) Ltd

Client
Riveredge Development Pte Ltd

Architectural Consultant
W Architects Pte Ltd

Structural Consultant
Tham & Wong LLP

M&E Consultant
Parsons Brinckerhoff Pte Ltd

Quantity Surveyor
Northcroft Lim Consultants Pte Ltd

Construction Cost
$32.6 million

Construction Period
30 months

Gross Floor Area
19,098 m²

Key Features:

• Demonstrated modern construction methods to achieve excellence in construction, e.g., fall prevention falsework system to replace scaffold, full envelopment precast system for buildability, screedless flooring system to reduce wet trade, online portal for real time tracking of unit defects rectification works.

• Achieved 89.7 CONQUAS score for good workmanship quality.
Construction Excellence Award

Linear Green @ Bedok (Bedok Town Centre Contract 6)
(Residential Buildings – Below $1200/m²)

Builder
China Construction (South Pacific) / Development Co Pte Ltd

Client
Housing & Development Board

Architectural / Structural / M&E Consultant
Surbana International Consultants Pte Ltd

Quantity Surveyor
Surbana International Consultants Pte Ltd

Project Management
SIPM Consultants Pte Ltd

Construction Cost
$94.6 million

Construction Period
35 months

Gross Floor Area
105,500 m²

Key Features:

• Introduced several innovative ideas to improve workmanship quality like the strengthening of 2-tier precast column to prevent tilting in transportation and erection, provision of perimeter joint for floor tile to prevent tile popping and changing bulky Precast Water tank to lighter Precast Ring Water tank for ease in hoisting.

• Winner of several distinctive awards like Housing & Development Board Best Quality Award, Housing & Development Board Construction Housekeeping Award 2007, PUB ECM model site (Environment Control).

• Achieved 85.5 CONQUAS score, the highest for a Housing & Development Board project to date.
**Construction Excellence Award**

**Kallang-Paya Lebar Expressway Contract 423**
(Civil Engineering Projects)

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<tr>
<th>Builder</th>
<th>Samsung C&amp;T Corporation</th>
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<tr>
<td>Client</td>
<td>Land Transport Authority</td>
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<tr>
<td>Principal / Structural Consultant</td>
<td>Mott MacDonald Singapore Pte Ltd</td>
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<td><strong>Construction Cost</strong></td>
<td>$426.0 million</td>
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<td><strong>Construction Period</strong></td>
<td>74 months</td>
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<td><strong>Gross Floor Area</strong></td>
<td>122,987 m² (2.96 km)</td>
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**Key Features:**

- Excellent engineering feat in the design and construction of expressway under Kallang River.

- Ranked by experts to be among the most difficult projects in the world especially the stretch of tunnel construction with Housing & Development Board blocks on one side, terrace houses on the other and a canal in between, all within a very narrow 50m-wide working corridor with potential of flooding.

- Used cross walls to control wall deflection of temporary retaining wall, omitted need for ground improvement using T-shape Diaphragm and used Half-Box construction method for the 2km long vehicular tunnel underneath the Pelton Canal for excellent TERS performance.
Construction and Completion of Dhoby Ghaut, Bras Basah, Esplanade and Promenade Stations and Tunnels – Circle Line Stage 1 C825
(Civil Engineering Projects)

Key Features:
- Demonstrated engineering marvels by overcoming problems in the construction of tunnels and stations under existing infrastructure especially at Dhoby Ghaut Interchange station.
Construction Excellence Award

**Fusionopolis Phase 1 @ one-north (Superstructure)**

*Industrial Buildings*

- **Builder**: Shimizu Corporation
- **Client**: JTC Corporation
- **Architectural / Structural / M&E Consultant**: Jurong Consultants Pte Ltd
- **Concept Architect**: Kisho Kurokawa Architect & Associates
- **Quantity Surveyor**: Jurong Consultants Pte Ltd
- **Specialist Engineer 1**: T.Y. Lin International Pte Ltd
- **Specialist Engineer 2**: Arup Singapore Pte Ltd
- **Construction Cost**: $320.0 million
- **Construction Period**: 31.5 months
- **Gross Floor Area**: 119,375 m²

**Key Features:**

- Excellent project management, expertise in structural steel construction and extensive usage of buildable systems such as unitised curtain walling, stone cladding, raised floor systems to expedite work processes without compromising quality.

- Overcoming complexity of the building shape, especially of the cantilever structural design, by carrying out phase-by-phase analysis with precise construction sequence study and 3D CAD analyses.

- Structural refinement was done to achieve lighter structural members and to create a less complex built-up section with standard rolled sections.

**Proposed Additions and Alterations to Existing Bukit Batok Secondary School at Bukit Batok West Avenue 8, Singapore**

*Institutional Buildings*

- **Builder**: Kwan Yong Construction Pte Ltd
- **Client**: Ministry of Education
- **Architectural / Structural / M&E Consultant**: CPG Consultants Pte Ltd
- **Quantity Surveyor**: CPG Consultants Pte Ltd
- **Project Management**: PM Link Pte Ltd
- **Construction Cost**: $26.0 million
- **Construction Period**: 17 months
- **Gross Floor Area**: 26,136 m²

**Key Features:**

- Achieved 86.9 CONQUAS points for workmanship quality in a public school project.
Proposed Rebuilding of Pei Tong Primary School at Clementi Avenue 5, Singapore (Institutional Buildings)

Builder
Kwan Yong Construction Pte Ltd

Client
Ministry of Education

Architectural / Structural / M&E Consultant
CPG Consultants Pte Ltd

Quantity Surveyor
CPG Consultants Pte Ltd

Project Management
PM Link Pte Ltd

Construction Cost
$17.9 million

Construction Period
21 months

Gross Floor Area
18,297 m²

Key Features:
• Excellent project management and commendable efforts for achieving 86.2 CONQUAS score for good workmanship.

The Stellar
(Residential Buildings – $1200/m² & Above)

Builder
Woh Hup (Pte) Ltd

Client
GuocoLand Limited

Architectural Consultant
JGP Architecture (S) Pte Ltd

Structural Consultant
Arup Singapore Pte Ltd

M&E Consultant
Rankine & Hill (S) Pte Ltd

Quantity Surveyor
WT Partnership (S) Pte Ltd

Project Manager
GuocoLand Property Management Pte Ltd

Construction Cost
$35.3 million

Construction Period
32 months

Gross Floor Area
18,443 m²

Key Features:
• Introduced several interesting designs and better products, e.g., revised basement layout, replaced electric storage heater with gas water heater, replaced timber decking with look-alike material on e-deck, used honey comb timber doors, and replaced copper pipes with PPR pipes.

• Achieved 94.3 CONQUAS score for excellent workmanship quality.

Merit Construction Excellence Award
The Beacon @ Cantonment Road
(Residential Buildings – $1200/m² & Above)

- **Builder**: China Construction (South Pacific) Development Co Pte Ltd
- **Client**: Cantonment Realty Pte Ltd
- **Architectural Consultant**: Axis Architects Planners Pte Ltd
- **Structural Consultant**: Engineering 2000
- **M&E Consultant**: Bescon Consulting Engineers Pte Ltd
- **Quantity Surveyor**: KPK Quantity Surveyors (Singapore) Pte Ltd
- **Landscape Architect**: ICN Design International Pte Ltd

- **Construction Cost**: $22.3 million
- **Construction Period**: 32 months
- **Gross Floor Area**: 13,098 m²

**Key Features:**
- Extensive use of modern and green construction method to achieve speed and quality, e.g., use of CBP wall to reduce shoring and to achieve watertightness, proprietary table formwork and jump platform for superstructure and light weight concrete panel for M&E riser.
- Achieved 91.8 CONQUAS score for excellent workmanship quality.
- Excellence in maintaining good relations with affected neighbours e.g., improving pedestrian path outside the site entrance.

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The Grange
(Residential Buildings – $1200/m² & Above)

- **Builder**: Thian Sung Construction Pte Ltd
- **Client**: Grange Development Pte Ltd
- **Architectural Consultant**: P&T Consultants Pte Ltd
- **Structural Consultant**: DE Consultants (S) Pte Ltd
- **M&E Consultant**: Rankine & Hill (S) Pte Ltd
- **Quantity Surveyor**: Davis Langdon & Seah Singapore Pte Ltd
- **Design Architect**: Guida Moseley Brown Architects
- **Landscape Architect**: Sitetectorix Pte Ltd

- **Construction Cost**: $51.1 million
- **Construction Period**: 28 months
- **Gross Floor Area**: 28,519 m²

**Key Features:**
- Demonstrated initiatives in improving design, e.g., change of basement structure to flat slab system, proposed transfer beam to achieve unobstructed view between e-deck and residential floor, provided additional side entrance link to busy Grange Road to ease traffic.
- Maintained an excellent relationship with affected neighbours throughout the project through the use of higher than normal boundary walls to minimise dust and noise, 24-hour hotline and response team to act on feedback.
- Achieved 89.7 CONQUAS points for high workmanship standard.
Varsity Park Condominium
(Residential Buildings – $1200/m² & Above)

Builder
Woh Hup (Pte) Ltd

Client
CapitaLand Residential Singapore Pte Ltd

Architectural Consultant
TSP Architects + Planners Pte Ltd

Structural / M&E Consultant
P&T Consultants Pte Ltd

Quantity Surveyor
Davis Langdon & Seah Singapore Pte Ltd

Construction Cost
$109.4 million

Construction Period
33.5 months

Gross Floor Area
73,821 m²

Key Features:
• Achieved 91.4 CONQUAS score for excellent workmanship quality.

Jurong West Neighbourhood 3 Contract 30A
(Residential Buildings – Below $1200/m²)

Builder
Sim Lian Construction Co (Pte) Ltd

Client
Housing & Development Board

Architectural / Structural / M&E Consultant
Surbana International Consultants Pte Ltd

Quantity Surveyor
Surbana International Consultants Pte Ltd

Project Management
SIPM Consultants Pte Ltd

Construction Cost
$57.5 million

Construction Period
36 months

Gross Floor Area
70,911 m²

Key Features:
• Achieved 82.8 CONQUAS score for workmanship quality with perfect record for safety and environmental compliances.
Construction and Completion of Serangoon Interchange Station including Tunnels – Circle Line Stage 3 C852
(Civil Engineering Projects)

Builder
WH-STEC-AM Joint Venture

Client
Land Transport Authority

Principal / Structural Consultant
MWH Consultants (S) Pte Ltd

M&E Consultant
CMP Consulting Engineers

Architectural Consultant
AEP Consultants (S) Pte Ltd

Construction Cost
$168.6 million

Construction Period
63 months

Gross Floor Area
12,547 m²

Key Features:

• Honoured for excellence in project management for constructing the tunnels and interchange stations under the footing of North-East Line Serangoon MRT station.